

IN THE ABSTRACT:

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Please replace the abstract with the following:

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A ~~residential~~ multi-line ADSL modem (12) and network (10) whereby the multi-line ADSL modem (12) has connections to several ADSL modems (14) at a central office (CO) (16) through a master loop (18), shared loops (~~18~~, 20, 22), and/or broadcast loops (~~62~~) (84). The master loop (18) provides the basic connection between the multi-line ADSL modem (12) and the CO modem (~~H~~) (14) at the central office (16) while maintaining regular telephone service. The shared loops allow the multi-line ADSL modem to share the transmission capacity with other ~~residential~~ modems. The multi-line ADSL modem is able to receive broadcast data from the central office where several loops are configured as a broadcast loop for downstream transmission only, but which can also be configured for upstream communication transmission only or in combination with downstream transmission to provide bi-directional broadband communications.